

Philadelphia, 16th March 2

Sir,

In reply to complaints that our soap has not been well mixed, I respectfully offer you a description of the manner in which the mixture has, in every single barrel, been effected. 1. The emulsion mixture of ground sweep and water, is transferred to shallow iron pan and evaporated to dryness, so that the dried sweep is already mixed. 2. The dried sweep is transferred to a large box, holding more than a barrel, whereby it is again mixed. 3. It is then sifted through a N^o 2 sieve into another box. 4. It is sifted back into the first box through a N^o 4 sieve. 5. Being dug out & transferred into a barrel it is again mixed. I suppose every one will admit that a more perfect mixture cannot be effected than by the 5 handlings and siftings above. Each part of a barrel must be identical in composition.

Assays are made of each lot of 20 barrels of sweep. A *summit* Lindor's auger is forced through the compressed charge of each barrel in two places and different directions, equivalent to another mixing. ⁷⁻¹⁶ Thus 2 samples of each ^{of the 10} barrels are then mixed together ten times, so that the 20 samples are rendered absolutely perfect in mixture, by the 10 siftings through a No 90 sieve.

There is nowhere in the world and cannot be a more perfect mixture of sweep, than we obtain by the above 16 mixings, 12 of which are effected by sifting.

Respectfully yours
J. C. Booth

Hon. A. Loudon Snowden
Superintendent